

Recovery Plan Action Status

Plan Name: Recovery Plan for Upland Species of the San Joaquin Valley, California

Plan Status: Final

Plan Date: 30-Sep-98

Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office

(916)

414-6600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Palmate-bracted bird's beak (Cordylanthus palmatus), Bakersfield cactus (Opuntia treleasei), Riparian brush rabbit (Sylvilagus bachmani riparius), California jewelflower (Caulanthus californicus), Fresno kangaroo rat (Dipodomys nitratooides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratooides), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	2	1.1	Develop regional cooperative program that coordinates land use planning and biodiversity conservation	Ongoing Not Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Information and Education	Internal Technical Assistance	

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Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratoides)	1	2.1.1	Protect and secure listed species habitat at Elk Hills and Buena Vista Valley	Partially Complete	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, U.S. Department of Energy, Occidental	Acquisition: Easement	Internal Technical Assistance	

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Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Giant kangaroo rat (<i>Dipodomys ingens</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) congdonii</i>)	1	2.1.10	Protect natural lands in Kettleman Hills	Partially Complete			California Department of Parks and Recreation, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Army Corps of Engineers	Acquisition: Easement	Internal Field Assistance	BLM is lead.
Buena Vista Lake ornate Shrew (<i>Sorex ornatus relictus</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Tipton kangaroo rat (<i>Dipodomys nitratoides nitratoides</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) congdonii</i>)	3	2.1.11	Protect natural land in Kern NWR-Semitropic Ridge Natural Area	Ongoing Current	FY 1995 - FY 1999		California Energy Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, The Nature Conservancy, Private landowners	Acquisition: Easement	Internal Field Assistance	Acquired 640 acres abutting Kern NWR.
California jewelflower (<i>Caulanthus californicus</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Giant kangaroo rat (<i>Dipodomys ingens</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) congdonii</i>)	1	2.1.12	Protect, restore, and enhance the Carrizo Plain Natural Area	Ongoing Current	FY 1995 - FY 1999		California Department of Fish and Game, The Nature Conservancy, U.S. Army Corps of Engineers, Private landowners	Acquisition: Easement	Internal Field Assistance	

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California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	3	2.1.13	Protect natural lands and traditional rangeland uses in the Upper Cuyama Valley	Unknown	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service	Acquisition: Easement	Contract	
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	1	2.1.14	Protect natural lands in the Ciervo - Panoche Natural Area	Ongoing Not Current	FY 1995 - FY 1999		California Department of Fish and Game, U.S. Army Corps of Engineers, Private landowners	Acquisition: Easement	Contract	Depends partly on 1.2.2
California jewelflower (Caulanthus californicus), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.1.15	Protect and manage natural lands adaptively in the Kreyenhagen Hills	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, Private landowners	Acquisition: Easement	Contract	Depends partly on 1.2.2
San Joaquin kit fox (Vulpes macrotis mutica)	3	2.1.16	Protect and properly manage listed species and habitat at Bitter Creek NWR	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	Depends on 1.2.2
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.1.17	Protect and manage lands appropriately in the Kerman and Alkali Sink ERs	Unknown	FY 1995 - FY 1999		California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	

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Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	3	2.1.18	Protect and properly manage listed species habitat at Mendota WA	Ongoing Not Current	FY 1995 - FY 1999		California Department of Fish and Game	Acquisition: Management Agreement	Internal Field Assistance	
San Joaquin kit fox (Vulpes macrotis mutica)	2	2.1.19	Protect and maintain compatible land uses in the northwestern portion of the kit fox range	Ongoing Not Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Internal Field Assistance	Partly depends on 1.2.2
San Joaquin kit fox (Vulpes macrotis mutica)	2	2.1.2	Protect San Joaquin kit fox habitat on Camp Roberts and Fort Hunter Liggett	Ongoing Current	FY 1995 - FY 1999		California Army National Guard, U.S. Department of Defense, U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	Rabies outbreak may have adversely affected Kit Fox; however, other correlated changes on base may have also resulted in decline.
Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides nitratoides)	1	2.1.3	Protect, restore, and enhance upland and wetland communities on Kern Fan Element for Bakersfield smallscale and other species, and consider introduction of Buena Vista Lake shrew	Partially Complete	FY 1995 - FY 1999		Kern County Water Agency, California Department of Water Resources, Kern Water Bank Authority, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, Private landowners	Acquisition: Management Agreement	Internal Field Assistance	Kern water bank has been set up.

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California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	1	2.1.4	Protect natural lands on Valley floor and piedmont slopes of western Kern Co.	Partially Complete	FY 1995 - FY 1999		California Department of Water Resources, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Internal Administrative	This task is for administrative actions only; depends on 1.2.2
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.1.5	Protect natural lands in western Madera Co.	Discontinued	FY 2000 - FY 2004		U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Privately owned grazing land; depends partly on 1.2.2
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	2.1.6	Protect natural lands in northcentral Fresno County	Unknown	FY 1995 - FY 1999		U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Acquisition: Easement	Contract	Depends on 1.2.2
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides)	1	2.1.7	Protect natural lands in the Pixley NWR-Allensworth NA area	Partially Complete	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Partly depends on 1.2.2

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San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	3	2.1.8	Protect natural land in Kern NWR-Semiotropic Range Natural Area	Ongoing Current	FY 1995 - FY 1999		California Energy Commission, U.S. Fish and Wildlife Service, California Department of Fish and Game, The Nature Conservancy, Private landowners	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	Depends partly on 1.2.2 and 1.2.6
Palmate-bracted bird's beak (<i>Cordylanthus palmatus</i>), Fresno kangaroo rat (<i>Dipodomys nitratoides exilis</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	2	2.1.9	Protect and enhance natural lands in Sandy Mush Road and South Grasslands areas, Merced County	Ongoing Current	FY 2000 - FY 2004		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Depends on 1.2.2
Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Tipton kangaroo rat (<i>Dipodomys nitratoides nitratoides</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) congdonii</i>)	2	2.2.10	Protect natural land for multiple species in the Lost Hills-Buena Vista Slough area	Unknown			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
Bakersfield cactus (<i>Opuntia treleasei</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	2	2.2.12	Protect natural land for Bakersfield cactus and other species in Greater Bakersfield, north of Kern River	Ongoing Not Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
Bakersfield cactus (<i>Opuntia treleasei</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	1	2.2.14	Develop specialty reserve for Bakersfield cactus in Kern Bluffs area	Ongoing Not Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Management: Habitat Maintenance and Manipulation	Contract	Depends partly on 1.2.2

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Bakersfield cactus (<i>Opuntia treleasei</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) congdonii</i>)	1	2.2.19	Protect natural land and establish specialty reserve for Bakersfield cactus at Sand Ridge	Ongoing Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, The Nature Conservancy, U.S. Army Corps of Engineers	Acquisition: Easement	Contract	Depends partly on 1.2.2; protection ongoing
Bakersfield cactus (<i>Opuntia treleasei</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	1	2.2.22	Protect natural land and establish specialty reserve for Bakersfield cactus at Mettler-Wheeler Ridge area	Unknown			California Department of Water Resources, City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Partly depends on 1.2.2
California jewelflower (<i>Caulanthus californicus</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Giant kangaroo rat (<i>Dipodomys ingens</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) congdonii</i>)	1	2.2.23	Protect natural communities for California jewelflower and other featured species at Santa Barbara Canyon	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Forest Service, Private landowners	Acquisition: Easement	Contract	Depends partly on 1.2.2
Riparian woodrat (=San Joaquin Valley) (<i>Neotoma fuscipes riparia</i>), Riparian brush rabbit (<i>Sylvilagus bachmani riparius</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	1	2.2.5	Protect, restore, and manage riparian and upland habitat in the San Joaquin River in Merced Co.	Ongoing Current	FY 1995 - FY 1999		California Department of Parks and Recreation, City governments, County governments, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Army Corps of Engineers	Acquisition: Easement	Contract	

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Fresno kangaroo rat (<i>Dipodomys nitratoides exilis</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	1	2.2.6	Expand, restore, and protect Fresno kangaroo rat habitat at Lemoore NAS	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, United States Navy	Acquisition: Lease	Contract	Includes management research, retirement of agricultural ground, and adaptive management
Fresno kangaroo rat (<i>Dipodomys nitratoides exilis</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	1	2.2.7	Protect natural land north of the Tulare Lake Bed for Fresno kangaroo rats and other species in Kings Co.	Not Started			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Private grazing land
California jewelflower (<i>Caulanthus californicus</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Tipton kangaroo rat (<i>Dipodomys nitratoides nitratoides</i>)	2	2.2.9	Protect natural land for multiple plant species in the Devil's Den area	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2

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Fresno kangaroo rat (<i>Dipodomys nitratooides exilis</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Tipton kangaroo rat (<i>Dipodomys nitratooides nitratooides</i>)	3	3.2.19	Conduct surveys for upland vertebrates on the southern Valley floor	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	

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San Joaquin kit fox (Vulpes macrotis mutica)	3	3.2.27	Conduct surveys for kit fox in the northwestern portion of range and northwestern Valley edge	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
San Joaquin kit fox (Vulpes macrotis mutica)	3	3.2.28	Conduct surveys for kit fox on the northeastern Valley edge	Not Started			U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
San Joaquin kit fox (Vulpes macrotis mutica)	3	3.2.31	Conduct surveys for kit fox on the southeastern Valley edge	Not Started			U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
San Joaquin kit fox (Vulpes macrotis mutica)	2	3.2.32	Conduct surveys for kit fox in the Salinas river and Pajaro River watersheds	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens)	1	4.11	Conduct multiple research and monitoring tasks for multiple animal and one plant species in the Lokern	Partially Complete	FY 1995 - FY 1999		California Department of Water Resources, California Energy Commission, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Research: Population Surveys	Contract	Research for 5-year minimum; monitoring ongoing
San Joaquin kit fox (Vulpes macrotis mutica)	2	4.15	Conduct multiple research and monitoring tasks for San Joaquin kit fox in the Elk Hills - Buena Vista Valley area	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Private landowners, U.S. Department of Energy	Research: Competition	Contract	Monitoring ongoing, research for 5 years
San Joaquin kit fox (Vulpes macrotis mutica)	1	4.16	Conduct multiple research and monitoring tasks on San Joaquin kit fox in Metropolitan Bakersfield	Partially Complete	FY 1995 - FY 1999		County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	

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Bakersfield cactus (Opuntia treleasei), San Joaquin kit fox (Vulpes macrotis mutica)	1	4.19	Conduct multiple research and monitoring tasks for multiple species in the Sand Ridge and Bena-Caliente area	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, The Nature Conservancy, U.S. Army Corps of Engineers	Research: Population Surveys	Contract	Monitoring ongoing; research 5 years
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	3	4.22	Monitor populations of multiple plant & animal species at Wheeler Ridge & Comanche Point	Ongoing Not Current	FY 1995 - FY 1999		California Department of Water Resources, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Demographic Studies	Contract	
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratooides nitratooides)	1	4.25	Conduct multiple research tasks and monitoring of multiple species at Pixley NWR/Allensworth ER	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: General	Contract	Monitoring ongoing; research 6 years
Buena Vista Lake ornate Shrew (Sorex ornatus relictus), San Joaquin kit fox (Vulpes macrotis mutica)	1	4.26	Conduct multiple research tasks on the kit fox and census and demography data on the Buena Vista Lake shrew in southern Tulare and northern Kern Counties	Not Started			U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: General	Contract	
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens)	3	4.29	Monitor populations of multiple animal species at the Kettleman Hills	Not Started			California Department of Water Resources, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Demographic Studies	Contract	

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Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	4.33	Conduct multiple research tasks and monitoring for palmate-bracted bird's-beak and multiple animal species at Alkali Sink ER	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Status	Contract	
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	4.35	Conduct multiple research tasks and monitoring for multiple plant and animal species in western Madera County	Not Started			U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Research: Demographic Studies	Contract	Monitoring ongoing, research 5-10 years
San Joaquin kit fox (Vulpes macrotis mutica)	2	4.44	Census and monitor kit fox in the NE and NW Valley fringes in the NW portion of the range	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Status	Contract	Monitoring ongoing
San Joaquin kit fox (Vulpes macrotis mutica)	2	4.45	Conduct multiple research tasks and monitoring for the kit fox at Camp Roberts	Ongoing Current	FY 1995 - FY 1999		California Army National Guard, U.S. Department of Defense, U.S. Fish and Wildlife Service	Research: Habitat Status	Contract	Monitoring ongoing, research 5-10 years
San Joaquin kit fox (Vulpes macrotis mutica)	2	4.46	Conduct multiple research tasks and monitoring for the kit fox at Fort Hunter Liggett	Ongoing Current	FY 1995 - FY 1999		U.S. Department of Defense, U.S. Fish and Wildlife Service	Research: Habitat Status	Contract	Monitoring ongoing, research 5-10 years
San Joaquin kit fox (Vulpes macrotis mutica)	2	4.5	Conduct multiple research and monitoring tasks for the kit fox on the Carrizo Plain	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, The Nature Conservancy	Research: Habitat Status	Contract	Monitoring ongoing, research 5-6 years
San Joaquin kit fox (Vulpes macrotis mutica)	2	4.52	Conduct metapopulation genetics research on the San Joaquin kit fox	Ongoing Not Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	

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San Joaquin kit fox (Vulpes macrotis mutica)	2	4.57	Determine interactions and effects on kit fox of red foxes, coyotes, and feral dogs, and implement control methods as needed	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Requirements	Labor type not yet selected	Caltrans? funded study.
San Joaquin kit fox (Vulpes macrotis mutica)	3	4.58	Conduct research on the direct & indirect effects of rodenticides on Kit fox	Ongoing Current	FY 1995 - FY 1999		California Department of Food and Agriculture, California Environmental Protection Agency, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Management Techniques	Contract	
Palmate-bracted bird's beak (Cordylanthus palmatus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens)	2	5.1.1	Restore habitat and habitat linkages for kit foxes on the Valley floor, western Fresno County	Not Started			U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, Private landowners	Acquisition: Management Agreement	Contract	Depends partly on 1.2.2
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides)	2	5.1.2	Establish linkage along Carces Highway Corridor for multiple animal species	Ongoing Current			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Depends on 1.2.2 and 1.2.6
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides)	3	5.1.3	Protect & restore habitat & habitat linkages along Hwy 43 Corridor for Tipton kangaroo rat, blunt-nosed leopard lizard, San Joaquin kit fox & other species	Unknown	FY 2006		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Management Agreement	Contract	Depends partly on 1.2.2 and 1.2.6

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San Joaquin kit fox (Vulpes macrotis mutica)	3	5.1.4	Protect & restore habitat and habitat linkages for San Joaquin kit foxes between Lost Hills & semitropic Ridge	Partially Complete			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Management Agreement	Contract	Depends partly on 1.2.2 and 1.2.6
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	5.1.5	Link Kettleman Hills with Gujarral and Coalinga Hills and Anticline Ridge by restoring and protecting habitat for upland species	Unknown			City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Management Agreement	Contract	Depends partly on 1.2.2
San Joaquin kit fox (Vulpes macrotis mutica), Tipton kangaroo rat (Dipodomys nitratoides nitratoides)	3	5.1.6	Enhance & manage Kern River alluvial fan area to ensure use & movement by kit foxes & Tipton kangaroo rats	Ongoing Current	FY 1995 - FY 1999		Kern County Water Agency, Kern Water Bank Authority, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Management Agreement	Contract	
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	5.1.7	Enhance natural values of Cowchilla Bypass easement properties as a linkage for listed species	Unknown			U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Management: Habitat Maintenance and Manipulation	Contract	Graze outer banks of levee, should generate revenue
Palmate-bracted bird's beak (Cordylanthus palmatus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica)	2	5.1.8	Establish linkage between northwestern and northeastern Valley edges through Sandy Mush Road area	Ongoing Not Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Management Agreement	Contract	Depends on 1.2.2

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San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	3	5.1.9	Establish and enhance linkage between kern NWR and Sierran foothills through the Poso Creek area	Partially Complete	FY 1995 - FY 1999		City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Private landowners	Acquisition: Management Agreement	Contract	
Buena Vista Lake ornate Shrew (<i>Sorex ornatus relictus</i>), Riparian woodrat (=San Joaquin Valley) (<i>Neotoma fuscipes riparia</i>), Palmate-bracted bird's beak (<i>Cordylanthus palmatus</i>), Bakersfield cactus (<i>Opuntia treleasei</i>), Riparian brush rabbit (<i>Sylvilagus bachmani riparius</i>), California jewelflower (<i>Caulanthus californicus</i>), Fresno kangaroo rat (<i>Dipodomys nitratoides exilis</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Kern mallow (<i>Eremalche kernensis</i>), Giant kangaroo rat (<i>Dipodomys ingens</i>), Tipton kangaroo rat (<i>Dipodomys nitratoides nitratoides</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) condonii</i>)	3	5.2	Reintroduce featured species to restored habitat within linkages	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Management Agreement	Contract	

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San Joaquin kit fox (Vulpes macrotis mutica)	3	5.3.1	Protect San Joaquin kit fox habitat in northeastern San Joaquin Valley edge	Ongoing Not Current	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Depends on 1.2.2
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens)	3	5.3.10	Maintain & enhance habitat linkages for upland species between CPNA & Cuyama Valley	Unknown	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	
San Joaquin kit fox (Vulpes macrotis mutica)	3	5.3.11	Maintain habitat linkage for upland species in the Estrella River watershed	Ongoing Not Current			City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Depends partly on 1.2.2
Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratooides), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	3	5.3.12	Maintain and enhance habitat linkages for upland species in the San Juan Creek watershed, San Luis Obispo Co.	Ongoing Not Current			City governments, County governments, U.S. Department of Agriculture, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Contract	Depends partly on 1.2.2
San Joaquin kit fox (Vulpes macrotis mutica)	2	5.3.2	Protect San Joaquin kit fox habitat in northwestern San Joaquin Valley edge	Ongoing Not Current	FY 1995 - FY 1999			Acquisition: Easement	Contract	Depends on 1.2.2

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Bakersfield cactus (<i>Opuntia treleasei</i>), California jewelflower (<i>Caulanthus californicus</i>), Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	2	5.3.3	Protect grassland and oak savana on east and southeastern edge of Valley for several listed species	Discontinued	FY 1995 - FY 1999		City governments, County governments, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
San Joaquin kit fox (<i>Vulpes macrotis mutica</i>)	2	5.3.4	Protect grass and shrubland communities on western Valley edge, Santa Nella to Panoche Creek	Discontinued	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends partly on 1.2.2
Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Giant kangaroo rat (<i>Dipodomys ingens</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) congdonii</i>)	2	5.3.5	Protect grass and shrubland communities on western Valley floor edge, Panoche Creek to Ciervo Wash	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
Blunt-nosed leopard lizard (<i>Gambelia silus</i>), San Joaquin kit fox (<i>Vulpes macrotis mutica</i>), Giant kangaroo rat (<i>Dipodomys ingens</i>), San Joaquin woolly-threads (<i>Monolopia (=Lembertia) congdonii</i>)	2	5.3.6	Protect grass and shrubland communities on western Valley edge, Ciervo Wash to Coalinga	Unknown			City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2

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California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	2	5.3.7	Protect grass and shrubland communities on weatern Valley edge, Coalinga to McKittrick	Discontinued	FY 1995 - FY 1999		City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
California jewelflower (Caulanthus californicus), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	2	5.3.8	Protect grass and shrubland communities on southwestern Valley edge from McKittrick to Maricopa and eastward and northward to Kern River, east of Bakersfield	Planned			California Department of Water Resources, Unknown, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Depends on 1.2.2
San Joaquin kit fox (Vulpes macrotis mutica)	2	5.3.9	Maintain and enhance habitat for San Joaquin kit fox in Salinas River-Pajaro River watersheds	Ongoing Not Current			City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Management: Habitat Maintenance and Manipulation	Contract	Depends on 1.2.2

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Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Palmate-bracted bird's beak (Cordylanthus palmatus), Bakersfield cactus (Opuntia treleasei), Riparian brush rabbit (Sylvilagus bachmani riparius), California jewelflower (Caulanthus californicus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratoides), San Joaquin woolly-threads (Monolopia (=Lembertia) congdonii)	3	6	Revise or develop new management plans for protected areas	Not Started			To be determined	Management: Planning	Contract	